

APPENDIX H

HURRICANE TIMBER SALE
and
ASSOCIATED ACTIVITIES

EMERGENCY SPILL PLAN

EMERGENCY SPILL PLAN GLYPHOSATE PRODUCTS

NOTE: Field personnel transporting or working with pesticides should familiarize themselves with this plan, as well as with the labels and Material Safety Data Sheets of all pesticides to be used on a project. A copy of this plan is to be carried to the field by all crews working with pesticides; a copy is also to be kept in an easily accessible location near the telephone at the district dispatch or reception desk.

THIS PLAN APPLIES TO USE AND TRANSPORT OF ROUNDUP, ACCORD, RODEO OR OTHER PRODUCTS WITH GLYPHOSATE AS ITS ACTIVE INGREDIENT, AS WELL AS USE AND TRANSPORT OF ANY RELATED ADJUVANTS (IE. CIDEKICK, CIDEKICK II). DO NOT USE THIS PLAN FOR ANY OTHER PESTICIDE PRODUCTS UNLESS SO PROVIDED BY DISTRICT PESTICIDE COORDINATOR.

Emergency procedures to follow when a pesticide spill occurs at the work site:

1. PROVIDE FOR CARE OF INJURED OR CONTAMINATED PERSONNEL

- A. Immediately determine if any personnel are injured or contaminated. Each situation may differ, but the major and immediate effort should be to assist personnel and minimize further contamination. Accordingly, the following must be accomplished as rapidly as possible.
- B. Remove injured or contaminated personnel from the spill site to a safe area.
- C. If eyes are contaminated with pesticide, give first priority to washing them out, using portable eyewash bottles, or if these are unavailable, any clean water. Remove contaminated clothing from affected individuals, and wash pesticides off skin with detergent and clean water. If pesticide has been ingested, immediately dilute by swallowing water or milk, and contact medical facilities as listed in this plan.
- D. Immediately seek medical assistance for injured and contaminated personnel. Do not leave contaminated individuals alone unless essential to secure aid. If necessary, direct a third person to stay with the injured until a physician takes charge and has been advised of the actual or possible pesticide exposure.
- E. Watch for the following symptoms of pesticide poisoning: Eye irritation, skin irritation, gastrointestinal discomfort, dizziness, headache, nausea, vomiting, diarrhea, slurred speech, muscle twitching or convulsions, or difficulty in breathing.

2. SPILL IDENTIFICATION

Product Name: Isopropylamine Salt of Glyphosate, EPA Reg. No. 524-308

Flammability: essentially non-flammable; if product is consumed by fire created by accident

(ie. vehicle fire), firefighters should wear self-contained breathing apparatus and full protective clothing.

Toxicity: nontoxic to humans for any reasonably predictable accidental exposure. Main concern is irritation of eyes and skin from contact of concentrated liquid. Treat ingestion of any concentrate as a medical emergency.

Environmental: Low toxicity to animals. Roundup is considered moderately toxic to fish and aquatic organisms due to factory surfactant used in product formulation.

Isolate contaminated area and keep unnecessary people away.

3. **NOTIFY**

Field personnel contact dispatcher/receptionist for aid.

District Pesticide Specialists:

Rick Wilson (Burnsville Office)
Office: 828-682-6146
Home: 828-682-9705

Arthur Frisbee (Hot Springs Office)
Office: 828-622-3202
Home: 828-622-7225

District Safety Officers:

Jerry Murphy (Burnsville Office)
Office: 828-682-6146
Home: 828-682-6069

Arthur Frisbee (Hot Springs Office)
Office: 828-622-3202
Home: 828-622-7225

Give the following information: Chemical name, location of spill, road name, and estimated size of the spill in gallons.

The District Pesticide Specialist, or other District Assistant acting for him, will notify key personnel and agencies as required (see attached notification list).

4. **CONTAIN SPILL**

- A. Spilled pesticides must be contained as much as possible on the site where the spill has occurred. Keep spilled pesticides from entering streams, storm drains, wells, ditches, or water systems by following these procedures:
- B. Wear appropriate protective clothing. At a minimum, this will include suitable clothing for pesticide application, plus rubber or nitrile gloves and safety glasses or goggles.
- C. Prevent further leakage from containers by repositioning them so that the damaged part of the container is above the level of the contents, or by applying rags, tape, or other materials at hand to temporarily seal the leak.

- D. Separate leaking containers from undamaged containers.
- E. Confine the spill to prevent it from spreading. Encircle the spill area with a dike of sand or other absorbent material; rags or similar material may be used if necessary. If spilled material may flow toward sensitive areas, divert it by ditching. With Glyphosate product, deactivate chemical and prevent off-site translocation by mixing with loose soil.
- F. If the spill involves a water course, dam it up to confine the spill if possible. Muddy water or mix in loose soil to deactivate and bind Glyphosate. For larger waterways, a log boom or baled straw may be used to contain the spill. Dam or divert the flow of clean water around the spill if possible.
- G. Cover spilled liquid with absorbent material (kitty litter is ideal) for spilled quantities greater than can be handled by mixing with loose dirt. NOTE: Unless this material can be reused in accordance with pesticide label, it must be disposed of as a toxic waste.
- H. DO NOT flush the spill into a ditch, sewer, drain, or off of a road, since this will further spread the chemical.

5. CLEAN-UP

Spill containment is the objective of this emergency spill plan. Clean-up and disposal procedures are covered in FSH 2109.12 Chapter 33, Project Safety Plan, in the 1990 Emergency Response Guidebook ("Orange Book"), and in the Material Safety Data Sheets for each pesticide.

6. DOCUMENTATION

Document spill type, action taken, and any needed follow-up or assistance necessary in a letter to the Forest Supervisor, with a cc to the Regional Pesticide Specialist.

SUMMARY OF CLEAN-UP STEPS:

- A. Pump or bail as much of the spilled liquid as possible into containers, then:
- B. Use absorbent materials, such as commercially bagged clay, kitty litter, or sawdust to soak up the spill. Use only enough material to absorb the spill. Begin spreading the absorbent material around the edge of the spill and work toward the center. Use loose soil to deactivate and bind Glyphosate products.
- C. Shovel the absorbent material and pesticide, along with any contaminated soil, into leak-proof containers.
- D. Label all containers
- E. Store the containers in the pesticide storage building until the contents can be evaluated for disposal or reuse in a manner consistent with labeling.

NOTIFICATION LIST OF KEY PERSONNEL AND AGENCIES

1. District Pesticide Specialists Rick Wilson (Burnsville Office)
Office: 828-682-6146
Home: 828-682-9705

Arthur Frisbee (Hot Springs Office)
Office: 828-622-3202
Home: 828-622-7225
2. District Safety Officers Jerry Murphy (Burnsville Office)
Office: 828-682-6146
Home: 828-682-6069

Arthur Frisbee (Hot Springs Office)
Office: 828-622-3202
Home: 828-622-7225
3. Medical Facilities Ambulance-EMS 911
Hot Springs Medical Center 828-622-3245
Memorial Mission Hospital 828-255-4000
Spruce Pine Hospital 828-765-4201
4. Carolina Poison Center 1-800-848-6946
5. Fire Departments Emergency Response: 911
6. County Sheriff Departments Avery County Sheriff 828-733-5855
Buncombe County Sheriff 828-277-3100
Madison County Sheriff 828-649-2721
Mitchell County Sheriff 828-688-3982
Yancey County Sheriff 828-682-2124
7. National Response Center 1-800-424-8802
(Oil and Toxic Chemical Spills)
8. Forest Pesticide Specialist John Blanyon
Office: 828-257-4248

(Notify if spill is larger than 5 gallons)
9. USFS Region 8 Spill Coordinator Roger Mizell
Office: 404-347-3369
10. Pesticide Manufacturer:
Monsanto Company, St. Louis, MO: Emergency Number, Call Collect: 314-694-4000
11. CEMTREK - EPA number for technical assistance - 1-800-424-9300
(NOTE: Chemicals which we normally use are not on EPA's hazardous list; you are not

required to contact them.)

12. EPA National Emergency Response Center - 1-800-424-9346
(Notify only if spilled chemical is on CERCAL Consolidated Chemical List)
13. Pesticide Safety Team of the National Agriculture Chemical Association (for technical assistance) 1-513-961-4300
14. Local Sources of emergency equipment and supplies
Contact District Business Manager for Emergency Equipment Rental Agreements
15. Forest HAZMAT Coordinator Tim Chesley
Office: 828-257-4223

RECOMMENDED PESTICIDE SPILL KIT CONTENTS**Storage Facility Kit**

4 pair nitrile gloves
2 pair unvented goggles
1 roll of flagging or engineer's tape
1 dust pan
1 shop brush
1 dozen polyethylene bags with ties
1 gallon liquid detergent
1 polyethylene or plastic tarp
10 blank labels
100 feet of rope
1 ABC-type fire extinguisher
80 lbs. absorbent material
3 gallons household bleach
1 square-point "D" handled shovel
1 55-gallon open-head drum, or 50-gallon trashcan with lid
1 18-inch push broom with synthetic fibers
1 bung and 1 bung wrench for 2.5 inch and 0.75 inch bungs
1 drum spigot
30 feet of 0.5 inch polyethylene tubing or 150 feet of garden hose

Vehicle Kit

2 pair nitrile gloves
1 pair unvented goggles
1 dust pan
1 shop brush
6 polyethylene bags with ties
1 pint liquid detergent
1 polyethylene or plastic tarp
10 blank labels
1 ABC-type fire extinguisher
10-30 lbs. absorbent material
2 eyewash bottles
1 round-point shovel
1 portable weatherproof container for storage and transport (may also be used for cleanup)